DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

33 HUMAN SECRETED PROTEINS

the specification of which was filed on July 28, 2000 as Application Serial No. 09/628,508.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

):			
		Priority Cl. Yes	aimed No
(Country)	(Day/Month/Year Filed)		
nder 35 U.S.C.	§ 119(e) of any United States	s provisional	
•			
	(Country) nder 35 U.S.C. 10 Februa	(Country) (Day/Month/Year Filed)	Priority Cl. Yes (Country) (Day/Month/Year Filed) Inder 35 U.S.C. § 119(e) of any United States provisional 10 February 1999

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US00/03062	8 February 2000	Pending
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Daniel R. Soppet

Full name of first joint inventor:	Daniel R. Soppet		
Inventor's signature:		Date:	
Residence: 15050 Stillfield Place, Centres	ville VA 22020	Citizenship:	US
Post Office Address: same as above	VIIIC, VII 22020	Olimping.	
Fost Office Address.			
Full name of additional joint inventor:	Paul A. Moore		
Inventor's signature:		Date:	
Residence: 19005 Leatherbark Drive, Gern	mantown, MD 20874	Citizenship:	UK
Post Office Address: same as above	111111111111111111111111111111111111111		
Tost Office radicess.			
Full name of additional joint inventor:	Yanggu Shi		
Inventor's signature:		_ Date:	
Residence: 437 West Side Drive, Apt. 102, Ga	aithersburg, MD 20878	_ Citizenship:	CN
Post Office Address: same as above			
77 17 18 18 18 18 18 18 18 18 18 18 18 18 18	C4 M. Dh		
Full name of additional joint inventor:	Steven M. Ruben		
Inventor's signature:		Date:	
Residence: 18528 Heritage Hills Drive, C	Olney MD 20832	Citizenship:	US
Post Office Address: same as above		1	
Tost Office Madross.			
Full name of additional joint inventor:	Craig A. Rosen		
		_	
Inventor's signature:		Date:	7.70
Residence: 22400 Rolling Hills Road, Lay	tonsville, MD 20882	Citizenship:	US
Post Office Address: same as above			
•			
77 J	Design Tables		
Full name of additional joint inventor:	David W. LaFleur		
Inventor's signature		Date:	
Inventor's signature: Residence: 3142 Quesada Street, N.W., Was	shington DC 20015	Citizenship:	US
Post Office Address: same as above	5.011, 100 10015	CILLIAN P.	
1 Ost Office radicess.	1, 1, 2		

Page 2 09/628,508 PZ037P1

Full name of additional joint inventor:	Henrik Ulsen
Inventor's signature:	Date:
Inventor's signature:	
Residence: 182 Kendrick Place, #24, Ga	ithersburg, WID 20878 Chizenship. DK
Post Office Address: same as above	
Full name of additional joint inventor:	Reinhard Ebner
,	
Inventor's signature:	Date:
Residence: 9906 Shelburne Terrace, #316, C	Gaithersburg, MD 20878 Citizenship: DE
Post Office Address: same as above	
Tost Office ridation.	
Full name of additional joint inventor:	Kimberly Florence
Tun hanc of additional Jone in tensor.	
Inventor's signature:	Date:
Residence: 12805 Atlantic Avenue, Roc	
Post Office Address: same as above	
Fost Office Address. Same as above	
Full name of additional joint inventor:	Paul Young
Tun hame of additional joint in chief.	1.0
Inventor's signature:	Date: 10/05/00
Residence: 122 Beckwith Street, Gaither	
Post Office Address: same as above	
1 Ost Office Address.	
Full name of additional joint inventor:	George Komatsoulis
I di name di additional joint mi ensor.	00015011011010101
Inventor's signature:	Date:
Residence: 9518 Garwood Street, Silver	Spring, MD 20901 Citizenship: US
Post Office Address: same as above	3,
Tost Office Address.	
Full name of additional joint inventor:	Jian Ni
a manage of administration of the control of the co	
Inventor's signature:	Date:
Residence: 5502 Manorfield Road, Rock	
Post Office Address: same as above	1

The first first first of the second of the s

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

33 HUMAN SECRETED PROTEINS

the specification of which was filed on July 28, 2000 as Application Serial No. 09/628,508.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Applica	ition(s):		Priority C Yes	laimed No
(Number)	(Country)	(Day/Month/Year Filed)		
I hereby claim the beapplication(s) listed b		§ 119(e) of any United States	provisional	
60/119,468 (Application Serial	No.) 10 February (Filing			
I hereby claim the be 365(b) of any PCT in insofar as the subject	nefit under 35 U.S.C. ternational applicatio matter of each of the	§ 120 of any United States ap n designating the United State claims of this application is no tion in the manner provided by	s, listed below ot disclosed in	v and, the prior

PCT/US00/03062 8 February 2000 Pending
(Application Serial No.) (Filing Date) (Status: patented, pending, abandoned)

U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application

and the national or PCT international filing date of this application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Daniel R. Soppet		
Inventor's signature:	Date: 10/6/	100
Residence: 15050 Stillfield Place, Centreville, VA/2/020	Citizenship:U	J <u>S</u>
Post Office Address: same as above		
Full name of additional joint inventor: Paul A. Moore		
Inventor's signature:	Date:	
Residence: 19005 Leatherbark Drive, Germantown, MD 20874	4 Citizenship: U	JK
Post Office Address: same as above		
1 Ost Office reduced.		
Full name of additional joint inventor: Yanggu Shi		
	Data	
Inventor's signature:	Date: Citizenship:	
Residence: 437 West Side Drive, Apt. 102, Gaithersburg, MD 208	Chizenship.	<u>-14</u>
Post Office Address: same as above	<u> </u>	
Full name of additional joint inventor: Steven M. Ruben Inventor's signature: Residence: 18528 Heritage Hills Drive, Olney, MD 20832	Date:	US
Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Post Office Address: same as above		
Full name of additional joint inventor: Craig A. Rosen		
Inventor's signature:	Date:	
Residence: 22400 Rolling Hills Road, Laytonsville, MD 2088	Citizenship:	US
Post Office Address: same as above		
Full name of additional joint inventor: David W. LaFleu		
Inventor's signature:	Date:	US
Residence: 3142 Quesada Street, N.W., Washington, DC 20015	Citizenship:	<u> </u>
Post Office Address: same as above		

09/628,508

Full name of additional joint inventor:	Henrik Olsen
	Dotor
Inventor's signature:	Date: Date:Date:Date:Date:DATE:
Residence: 182 Kendrick Place, #24, Ga	hithersburg, MD 20878 Citizenship: DK
Post Office Address: same as above	
Full name of additional joint inventor:	Reinhard Ebner
_	
Inventor's signature:	Date:
Residence: 9906 Shelburne Terrace, # 316, 0	Gaithersburg, MD 20878 Citizenship: DE
Post Office Address: same as above	
	Vissah sula Elemen ee
Full name of additional joint inventor:	Kimberly Florence
Inventor's signature:	Date:
Inventor's signature: Residence: 12805 Atlantic Avenue, Roo	
Post Office Address: same as above	1 1110, 1120 2000 1
1 Ost Office Address.	
Full name of additional joint inventor:	Paul Young
Inventor's signature:	Date:
Residence: 122 Beckwith Street, Gaithe	ersburg, MD 20878 Citizenship: US
Post Office Address: same as above	
Full name of additional joint inventor:	George Komatsoulis
run name of additional joint inventor.	George 120massocia
Inventor's signature:	Date:
Residence: 9518 Garwood Street, Silve	r Spring, MD 20901 Citizenship: US
Post Office Address: same as above	
Full name of additional joint inventor:	Jian Ni
	Data
Inventor's signature:	Date: Kville, MD 20853 Citizenship: CN
Residence: 5502 Manorfield Road, Rock	kviiie, wid 20833 Citizenship. Civ
Post Office Address: same as above	

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

33 HUMAN SECRETED PROTEINS

the specification of which was filed on July 28, 2000 as Application Serial No. 09/628,508.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)	:		Priority Cl. Yes	aimed No
(Number)	(Country)	(Day/Month/Year Filed)		
I hereby claim the benefit un application(s) listed below.	der 35 U.S.C. §	119(e) of any United States p	provisional	
60/119,468 (Application Serial No.)	10 February (Filing D			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US00/03062	8 February 2000	Pending
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor:	Daniel R. Soppet	
Inventor's signature:	Date:	
Residence: 15050 Stillfield Place, Ce		US
Post Office Address: same as above	orthorno, vivi buobo	
1 Ost Office Address. Same as above		
Full name of additional joint inventor:	Paul A. Moore	-ATE/161
Inventor's signature:	Date:	
Residence: 19005 Leatherbark Drive,	Germantown, MD 20874 Citizenship:	UK
Post Office Address: same as abo		
E. II of additional injury inventors	Yanggu Shi	
Full name of additional joint inventor:	Tanggu Sin	
Inventor's signature:	Date:	
Residence: 437 West Side Drive, Apt. 10		CN
Post Office Address: same as abo	<u></u>	
Full name of additional joint inventor:	Steven M. Ruben	
Inventoris signatura:	Date:	
Inventor's signature: Residence: 18528 Heritage Hills Dri		US
Post Office Address: same as above		
Fost Office Address. Same as above		
Full name of additional joint inventor:	Craig A. Rosen	
•		
Inventor's signature:	Date:	
Residence: 22400 Rolling Hills Road	, Laytonsville, MD 20882 Citizenship:	US
Post Office Address: same as above		
TIN C. 1144 . I finish formandon.	David W. LaFlare	
Full name of additional joint inventor:	David W. LaFleur	
Inventor's signature:	Date:	
Residence: 3142 Quesada Street, N.W.,		US
Post Office Address: same as above		
1 001 011100 1 1001000.		

Full name of additional joint inventor:	Henrik Olsen		
		_	
Inventor's signature:		Date:	
Residence: 182 Kendrick Place, #24, Ga	ithersburg, MD 20878	Citizenship:	DK
Post Office Address: same as above			
Full name of additional joint inventor:	Reinhard Ebner		
Inventor's signature:	1 Clace	Date: 10/1	5/10
Residence: 9906 Shelburne Terrace, #316, (Gaithersburg, MD 20878	Citizenship:	DE
Post Office Address: same as above		*	
Full name of additional joint inventor:	Kimberly Florence		
•			
Inventor's signature:		Date:	
Residence: 12805 Atlantic Avenue, Roc	kville, MD 20851	Citizenship:	US
Post Office Address: same as above			
Full name of additional joint inventor:	Paul Young		
	•	Datas	
Inventor's signature:	1 100 00070	Date:	US
Residence: 122 Beckwith Street, Gaithe	rsburg, MD 208/8	Citizenship:	
Post Office Address: same as above			
Full name of additional joint inventor:	George Komatsoulis		
Tun name of additional joint inventor.	George Romanouns		
Inventor's signature:		Date:	
Residence: 9518 Garwood Street, Silver	Spring, MD 20901	Citizenship:	US
Post Office Address: same as above	<u> </u>	-	
Topic Citize Tidescelli.			
Full name of additional joint inventor:	Jian Ni		
•			
Inventor's signature:		Date:	
Residence: 5502 Manorfield Road, Rock	ville, MD 20853	Citizenship:	CN
Post Office Address: same as above			

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

33 HUMAN SECRETED PROTEINS

the specification of which was filed on July 28, 2000 as Application Serial No. 09/628,508.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

on(s):		Priority Cl Yes	aimed No
(Country)	(Day/Month/Year Filed)		
	§ 119(e) of any United States	provisional	
			
	it under 35 U.S.C. ow. 10 Februa	(Country) (Day/Month/Year Filed) Fit under 35 U.S.C. § 119(e) of any United States ow. 10 February 1999	Priority Cl Yes (Country) (Day/Month/Year Filed) Fit under 35 U.S.C. § 119(e) of any United States provisional ow. 10 February 1999

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US00/03062	8 February 2000	Pending
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor:	Daniel R. Soppet
Inventor's signature:	Date:
Residence: 15050 Stillfield Place, Centre	ville, VA 22020 Citizenship: US
Post Office Address: same as above	
	Paul A. Moore
Inventor's signature:	1. More Date: 10/7/00
Residence: 19005 Leatherbark Drive, Ger	mantown, MD 20874 Citizenship: UK
Post Office Address: same as above	
Full name of additional joint inventor: Inventor's signature: Residence: 437 West Side Drive, Apt. 102, G	Yanggu Shi Color Market Date: 10/0/100 aithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above	
Full name of additional joint inventor:	Steven M. Ruben
Inventor's signature: Residence: 18528 Heritage Hills Drive, Organical Post Office Address: same as above	Date: 10/12/06 Olney, MD 20832 Citizenship: US
Full name of additional joint inventor:	Craig A. Rosen
Inventor's signature: Residence: 22400 Rolling Hills Road, La Post Office Address: same as above	Date: /0//6/00 ytonsville, MD 20882 Citizenship: US
Full name of additional joint inventor:	David W. LaFleur
Inventor's signature: Residence: 3142 Quesada Street, N.W., Wa. Post Office Address: same as above	Date: 10 9 00 Shington, DC 20015 Citizenship: US

PZ037P1

Full name of additional joint inventor:	Henrik Olsen		
Inventor's signature:	(New	Date:	10/9/00
Residence: 182 Kendrick Place, #24, Gait	hersburg, MD 20878	Citizenship:	DK
Post Office Address: same as above			
Tost Office / Idahoos.		***	
Full name of additional joint inventor:	Reinhard Ebner		
Inventor's signature:		Date:	
Residence: 9906 Shelburne Terrace, #316, Ga	aithersburg, MD 20878	Citizenship:	DE
Post Office Address: same as above			
Full name of additional joint inventor:	Kimberly Florence		
\ 1/D	111		
Inventor's signature:	Thorener	Date: 10/1	7/w
Residence: 12805 Atlantic Avenue, Rock	ville, MD 20851	Citizenship:	<u>US</u>
Post Office Address: same as above			
Full name of additional joint inventor:	Paul Young		
Inventor's signature:		Date:	
Residence: 122 Beckwith Street, Gaithers	burg, MD 20878	Citizenship:	US
Post Office Address: same as above			
Full name of additional joint inventor:	George Komatsoulis		
run name of additional joint inventor.	George Romatsouns		n (.
Inventor's signature:	ratelle	Date: 16 (/cT2000
Residence: 9518 Garwood Street, Silver S	Spring, MD 20901	Citizenship:	. US
Post Office Address: same as above			
Full name of additional joint inventor:	Jian Ni		
		7	Ju /150
Inventor's signature:	1/2/	Date:	1100
Residence: 5502 Manorfield Road, Rocky	ille, MD 20853	Citizenship:	<u>CN</u>
Post Office Address: same as above			

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Soppet, Moore, Shi, Ruben, Rosen, LaFleur, Olsen, Ebner, Florence, Young, Komatsoulis and Ni, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention(s) known as 33 Human Secreted Proteins for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 10/5/00 (also known as United States Application No. 09/628.508, filed July 28, 2000), in any and all applications thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or litigation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonial evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:		Date:	
	Daniel R. Soppet		
Inventor's Signature:		Date:	
•	Paul A. Moore		
Inventor's Signature:		Date:	
	Yanggu Shi		
Inventor's Signature:	2	Date:	
	Steven M. Ruben		
Inventor's Signature:	Craig A. Rosen	Date:	
	Craig A. Rosen		
Inventor's Signature:	David W. LaFleur	Date:	· · · · · · · · · · · · · · · · · · ·
		T .	
Inventor's Signature:	Henrik Olsen	Date:	
Inventor's Signature:		Date:	
inventor s Signature.	Reinhard Ebner		
Inventor's Signature:		Date:	
•	Kimberly Florence		((1)
Inventor's Signature:	Paul Young	Date:	105/00
	Paul/Young	•	,
Inventor's Signature:	George Komatsoulis	Date:	
	George Komatsouns		
Inventor's Signature:	Jian Ni	Date:	
			

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Soppet, Moore, Shi, Ruben, Rosen, LaFleur, Olsen, Ebner, Florence, Young, Komatsoulis and Ni, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention(s) known as 33 Human Secreted Proteins for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 10/6/00 (also known as United States Application No. 09/628,508, filed July 28, 2000), in any and all applications thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or litigation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonial evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

IN WITNESS WHERE signature(s):	OF, this Assignment i	s executed by the und	dersigned on	the date(s) opposite their
Inventor's Signature:	Daniel R			0/6/00
Inventor's Signature:	Paul A. M	Moore	Date:	
Inventor's Signature:	Yanggu	Shi	Date:	
Inventor's Signature:	Steven M		Date:	
Inventor's Signature:	Craig A.		Date:	
Inventor's Signature:			Date:	
Inventor's Signature:	Henrik (Date:	
Inventor's Signature:			Date:	
Inventor's Signature:		y Florence	Date:	
Inventor's Signature:_		-	Date:	
Inventor's Signature:_		Komatsoulis	Date:	
Inventor's Signature:	_		Date:	

Jian Ni

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Soppet, Moore, Shi, Ruben, Rosen, LaFleur, Olsen, Ebner, Florence, Young, Komatsoulis and Ni, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention(s) known as 33 Human Secreted Proteins for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 10/10/00 (also known as United States Application No. 09/628,508, filed July 28, 2000), in any and all applications thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or litigation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonial evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:		Date:	
	Daniel R. Soppet		
Inventor's Signature:		Date:	
-	Paul A. Moore		
Inventor's Signature:		Date:	
	Yanggu Shi		
Inventor's Signature:		Date:	
	Steven M. Ruben		
Inventor's Signature:		Date:	
	Craig A. Rosen		
Inventor's Signature:	David W. LaFleur	Date:	
	David W. LaFleur		
Inventor's Signature:	Henrik Olsen	Date:	
			10-10-10-
Inventor's Signature:	Reinhard Ebner	Date:	10/10/00
	Reimiara Ebner		
Inventor's Signature:	Kimberly Florence	Date:	
	•	_	
Inventor's Signature:	Paul Young	Date:	
	, and the second	Date	
Inventor's Signature:	George Komatsoulis	Date:	
Invantor's Cignoture		Date	
Inventor's Signature:	Iian Ni		

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Soppet, Moore, Shi, Ruben, Rosen, LaFleur, Olsen, Ebner, Florence, Young, Komatsoulis and Ni, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention(s) known as 33 Human Secreted Proteins for which application(s) for patent in the 10/16, United States of America has (have) been executed by the undersigned on 10/7, 10/9;10/12, (also 10/9,10/9, known as United States Application No. 09/628.508, filed July 28, 2000), in any and all applications 10/17, thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or litigation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonial evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:		Date:	
	Daniel R. Soppet		
Inventor's Signature:	Pall A. Moor	Date: _	10/7/00
	Paul A. Moore		
Inventor's Signature:	hnumush,	Date: _	16/9:/80
	Yanggu Shi		
Inventor's Signature:	At-Alle	Date:	10/12/00
	Steven M. Ruben		
Inventor's Signature:	lafon	Date:	10//1/00
	Craig A. Rosen		/ /
Inventor's Signature:	and luly	Date:	10/9/00
	David W. LaFleur		, ,
Inventor's Signature:		Date:	10/9/00
	Henrik Olsen		
Inventor's Signature:		Date:	
	Reinhard Ebner		1
Inventor's Signature:	Tell Solorence	Date:	10/17/00
/	Kimberly Florence		
Inventor's Signature:		Date:	
	Paul Young		11 11 110
Inventor's Signature:	George A. Kegna Bearl	Date:	16 at 2000
	George Komatsoulis		10/9,
Inventor's Signature:		Date:	
	Jian Ni		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: SOPPET et al. Attorney Docket No.: PZ037P1C1

Application Serial No.: Not assigned Art Unit: Not assigned

Filed: Concurrently Herewith Examiner: Not assigned

Title: 33 Human Secreted Proteins

STATEMENT UNDER 37 C.F.R. § 3.73, REVOCATION OF PRIOR POWERS OF ATTORNEY OR AUTHORIZATIONS OF AGENT, AND POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Statement Under 37 C.F.R. § 3.73

Human Genome Sciences, Inc., organized and existing under the laws of the State of Delaware, having its principal place of business at 9410 Key West Avenue, Rockville, Maryland 20850, states that it is the assignee of record of the entire right, title and interest for the above-identified application by virtue of:

	A.	An assignment from the inventor(s) of the above-identified application.
		1. The assignment was recorded in the U.S. Patent and Trademark Office on, at Reel, Frame
		2. A copy of the assignment is attached.
\boxtimes	В.	An assignment from the inventor(s) of the above-identified application of the parent application (U.S. Patent Application No. 09/628,508, filed July 28, 2000, which is a continuation-in-part of Application No. PCT/US00/03062, filed February 8, 2000, which claims benefit under 35 U.S.C. §119(e) of Application No. 60/119,468, filed February 10, 1999), was filed in the U.S. Patent and Trademark Office on November 13, 2000 at Reel 11246, Frame 348.

☐ C.	C.	A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:			
		1. From: To: The document was recorded in the U.S. Patent and Trademark Office on, at Reel, Frame, or a copy thereof is attached.			
		2. From: To: The document was recorded in the U.S. Patent and Trademark Office on, at Reel, Frame, or a copy thereof is attached.			
		3. From: To: The document was recorded in the U.S. Patent and Trademark Office on, at Reel, Frame, or a copy thereof is attached.			

The undersigned, whose title is supplied below, is empowered to sign this document on behalf of the assignee. The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

Revocation of Prior Powers of Attorney or Authorizations of Agent

The assignee, Human Genome Sciences, Inc., hereby revokes all previous powers of attorney or authorizations of agent given in the above-captioned application.

Power of Attorney or Authorization of Agent

The assignee, Human Genome Sciences, Inc., hereby appoints the Practitioners at **Customer Number 22195** as its attorneys or agents with full power of substitution, association, and revocation to prosecute the application identified above, including any continuation or divisional applications, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to the above-mentioned Customer Number, namely **22195.**

On behalf of Human Genome Sciences, Inc.

For: Human Genome Sciences, Inc

Signature: HT

Name: James H. Davis, Ph.D.

Title: Senior Vice President and General Counsel

Date: November 30, 2001